

Macrophage Colony Stimulating Factor ELISA Kit | M-CSF elisa kit

Macrophage Colony Stimulating Factor (M-CSF)

CATALOG #
AAA77860

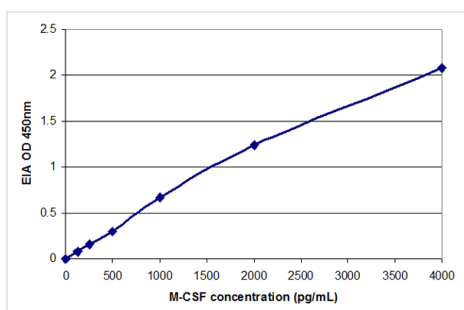
PRODUCT SYNONYMS

Macrophage Colony Stimulating Factor; Macrophage Colony Stimulating Factor (M-CSF); M-CSF elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA can detect both natural and recombinant human M-CSF. This kit exhibits no significant cross-reactivity with human IL-1alpha, IL-1beta, IL-2, IL-4, IL-6, IL-7, IL-8, IL-15, IL-16, TNF-alpha, TGF-beta, and TNF-beta.
Sequence Length	438
Samples	Serum, plasma and Cell Culture Supernatant
Assay Type	Sandwich
Sensitivity	The minimum detectable quantities of human M-CSF as observed by the standard curve generated for both Calibrator Diluent I and Calibrator Diluent II are 15 pg/mL and 37pg/mL respectively. The two standard deviations above the mean optical density of the 20 replicates of the zero standard were defined as the minimum detectable quantities.
Intra-assay Precision	To determine within-run precision, 3 different sera were assayed by using 10 replicates in 1 assay.
Inter-assay Precision	To determine between-run precision, 3 different sera were assayed by using replicates on 20 different assays.
Intended Uses	This Human M-CSF ELISA Kit is to be used for the in vitro quantitative determination of human Macrophage Colony Stimulating Factor (M-CSF) concentrations in serum, plasma and cell culture supernatant. This kit is intended FOR LABORATORY RESEARCH USE ONLY and is not for use in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for M-CSF elisa kit	Principle of the assay: This M-CSF enzyme linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific to M-CSF. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for M-CSF and incubated. If present, M-CSF will bind and become immobilized by the antibody pre-coated on the wells and then become "sandwiched" by biotin conjugate. The microtiter plate wells are thoroughly washed to remove unbound MCSF and other components of the sample. In order to quantitatively determine the amount of M-CSF present in the sample, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Avidin is a tetramer containing four identical subunits, each having a high affinity-binding site for biotin. The wells are thoroughly washed to remove all unbound HRP-conjugated Avidin and a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain M-CSF, biotin-conjugated antibody, and enzyme-conjugated Avidin will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. In order to measure the concentration of M-CSF in the samples, this kit includes two calibration diluents (Calibrator Diluent I for serum/plasma testing and Calibrator Diluent II for cell culture supernatant testing.) According to the testing system, provided standard is diluted (2-fold) with the appropriate Calibrator Diluent and assayed at the same time as the samples. This allows the operator to produce a standard curve of Optical Density (O.D) versus M-CSF concentration (pg/mL). The concentration of M-CSF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for M-CSF elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	27262663
NCBI GeneID	1435
NCBI Accession #	NP_757349.1
NCBI GenBank Nucleotide #	NM_172210.2
Molecular Weight	29,215 Da
NCBI Official Full Name	macrophage colony-stimulating factor 1 isoform b
NCBI Official Synonym Full Names	colony stimulating factor 1 (macrophage)
NCBI Official Symbol	CSF1
NCBI Official Synonym Symbols	MCSF; CSF-1
NCBI Protein Information	macrophage colony-stimulating factor 1; lanimostim
UniProt Protein Name	Macrophage colony-stimulating factor 1
UniProt Gene Name	CSF1
UniProt Entry Name	CSF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/m-csf-elisa-kits/macrophage-colony-stimulating-factor/77860>